

ECE-345-001 (Fall 2020) ▼

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Review Test Submission: Quiz 4.6

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Course	Intro to Control Systems - Fall 2020 Section Group I67
Test	Quiz 4.6
Started	9/15/20 9:57 AM
Submitted	9/15/20 9:59 AM
Status	Completed
Attempt Score	4 out of 4 points
Time Elapsed	1 minute
Results Displayed	Submitted Answers, Incorrectly Answered Questions

Question 11 out of 1 points



Which of the following describes the characteristic equation of a generic second-order system?

Selected Answer:

$$0 = s^2 + 2\zeta\omega_n s + \omega_n^2$$

Question 21 out of 1 points



Which of the following types of second order systems have step responses that are oscillatory? More than one answer may be correct.

Selected Answers: Undamped system

Underdamped system

Question 31 out of 1 points



For a transfer function $G(s) = \frac{4}{s^2 + 4}$, which of the following characterizations are correct?

Selected Answer:

Undamped, with $\zeta = 0, \omega_n = 2$

Question 41 out of 1 points



True or false? If both poles of a second-order system are located on the real line, the output response will be oscillatory and damped.

Selected Answer: False